

All Other Miscellaneous Fabricated Metal Product Manufacturing: 2002

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2002 Economic Census

Manufacturing

Industry Series



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U.S. Department of Commerce
Economics and Statistics Administration
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-- Not applicable for this report.

Table 1. Historical Statistics for the Industry: 2002 and Earlier Years

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry and year ¹	Com- panies ²	All estab- lish- ments ³	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)	
			Number ⁴	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)					
332999, All other miscellaneous fabricated metal product manufacturing	2002...	3 503	3 602	77 472	2 741 583	57 811	113 590	1 758 205	7 032 755	5 631 096	12 684 814	'482 998
	2001...	N	N	78 794	2 607 782	59 022	119 181	1 599 108	5 984 791	5 206 178	11 170 585	398 904
	2000...	N	N	83 655	2 742 891	63 130	126 445	1 711 479	6 560 076	5 763 594	12 246 159	411 484
	1999...	N	N	80 229	2 540 846	60 179	120 191	1 587 027	6 143 697	5 430 122	11 557 668	396 018
	1998...	N	N	79 345	2 421 448	58 655	117 942	1 509 437	5 773 964	5 245 082	10 982 486	351 472
	1997...	2 955	3 008	77 125	2 303 930	57 193	111 819	1 438 917	5 414 555	4 969 840	10 354 686	347 466

¹Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

²For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

³Includes establishments with payroll at any time during the year.

⁴Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 2. Industry Statistics for Selected States: 2002

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

Industry and geographic area	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
		Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)				
332999, All other miscellaneous fabricated metal product manufacturing												
United States	1	3 602	1 018	77 472	2 741 583	57 811	113 590	1 758 205	7 032 755	5 631 096	12 684 814	1 482 998
Alabama	—	48	12	1 478	44 367	1 204	2 506	31 305	143 992	150 885	295 549	7 393
Arizona	1	54	12	922	29 321	739	1 415	20 363	65 892	45 010	110 542	2 476
Arkansas	2	37	7	419	11 694	343	661	8 594	23 792	22 265	46 234	6 900
California	2	457	121	7 536	274 002	5 455	10 616	164 587	612 058	488 551	1 096 609	140 952
Colorado	3	70	12	754	23 581	584	1 077	16 029	54 791	27 062	81 630	11 979
Connecticut	2	45	14	971	38 217	718	1 392	23 820	77 348	49 674	125 640	4 172
Florida	2	117	23	1 828	63 482	1 399	2 820	44 046	117 048	85 033	201 862	6 074
Georgia	—	15	26	2 292	73 155	1 869	3 754	50 843	282 246	169 921	451 442	114 974
Idaho	1	15	3	228	5 799	163	300	3 671	7 341	11 914	20 764	531
Illinois	1	231	59	5 761	225 216	4 409	8 137	152 854	601 516	599 066	1 200 828	178 603
Indiana	1	103	44	3 621	121 303	2 773	5 435	79 894	349 288	503 822	838 500	113 241
Iowa	—	40	12	1 332	32 801	1 085	1 916	24 200	90 977	90 667	181 559	9 109
Kansas	1	34	7	492	18 453	326	672	10 418	34 906	30 761	65 946	3 843
Kentucky	—	54	25	1 854	75 509	1 266	2 557	45 538	326 877	372 892	708 820	112 782
Maine	1	14	4	364	15 530	307	663	11 297	26 016	23 006	49 288	3 624
Maryland	3	27	11	570	23 933	416	823	15 928	74 149	63 197	136 164	8 934
Massachusetts	2	105	34	2 207	83 206	1 514	2 936	48 256	168 697	109 988	281 045	26 056
Michigan	1	209	56	4 472	158 835	3 212	6 466	97 317	401 181	303 977	708 079	114 966
Minnesota	1	93	28	1 842	67 288	1 334	2 597	43 141	189 726	124 007	309 457	114 434
Missouri	3	49	10	765	25 382	600	1 165	18 248	60 042	32 634	91 931	2 305
Nebraska	—	20	6	1 214	40 787	963	1 912	26 190	71 940	96 483	169 850	3 344
Nevada	2	19	9	554	17 027	431	796	11 411	35 843	28 756	64 513	1 366
New Jersey	1	87	25	1 698	63 685	1 227	2 480	38 472	146 846	89 768	235 669	4 723
New York	2	150	35	2 731	100 349	1 982	4 013	57 154	208 043	170 127	397 916	115 075
North Carolina	2	100	17	1 154	37 143	866	1 629	25 964	101 074	49 470	151 238	3 859
Ohio	1	221	87	6 568	250 086	4 982	9 831	170 355	803 100	490 731	1 297 901	51 138
Oklahoma	3	46	15	1 357	44 194	890	1 758	24 486	91 431	62 638	153 224	3 638
Oregon	2	86	16	932	32 153	707	1 394	22 355	75 095	39 607	113 843	3 229
Pennsylvania	1	211	64	4 716	188 176	3 391	7 079	107 423	411 019	287 494	697 342	127 031
Rhode Island	1	25	9	1 107	33 225	767	1 537	20 428	68 333	55 450	122 914	1 850
South Carolina	2	42	16	1 169	40 792	975	2 139	31 667	99 495	77 276	181 112	4 382
Tennessee	2	61	18	1 312	44 083	986	1 983	29 336	105 903	91 142	193 272	7 136
Texas	1	219	66	4 780	160 936	3 636	7 110	101 246	496 742	312 345	821 874	142 776
Utah	1	38	9	1 168	35 191	904	1 661	21 899	82 857	55 337	137 455	11 298
Virginia	1	48	17	1 315	45 760	1 018	2 092	30 106	121 500	83 675	202 135	4 472
Washington	2	83	17	1 098	42 022	817	1 622	27 745	92 966	67 050	159 825	3 038
West Virginia	1	15	4	335	9 913	251	516	6 390	24 547	17 808	42 708	491
Wisconsin	2	112	31	1 948	61 324	1 435	2 646	40 693	119 786	109 343	230 325	9 264

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 3. Detailed Statistics by Industry: 2002

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
332999, All other miscellaneous fabricated metal product manufacturing	
Companies ¹	number.. 3 503
All establishments ²	number.. 3 602
Establishments with 1 to 19 employees	number.. 2 584
Establishments with 20 to 99 employees	number.. 889
Establishments with 100 employees or more	number.. 129
All employees ³	number.. 77 472
Total compensation	\$1,000.. 3 400 196
Annual payroll	\$1,000.. 2 741 583
Total fringe benefits	\$1,000.. 658 613
Production workers, average for year	number.. 57 811
Production workers on March 12	number.. 58 047
Production workers on May 12	number.. 58 252
Production workers on August 12	number.. 57 771
Production workers on November 12	number.. 57 004
Production worker hours	1,000.. 113 590
Production worker wages	\$1,000.. 1 758 205
Total cost of materials	\$1,000.. 5 631 096
Materials, parts, containers, packaging, etc., used	\$1,000.. 4 645 305
Resales	\$1,000.. 548 251
Purchased fuels	\$1,000.. 81 272
Purchased electricity	\$1,000.. 131 823
Contract work	\$1,000.. 224 445
Quantity of electricity purchased for heat and power	1,000 kWh.. 2 084 003
Quantity of electricity generated less sold for heat and power	1,000 kWh.. D
Total value of shipments	\$1,000.. 12 684 814
Primary products value of shipments	\$1,000.. 10 754 816
Secondary products value of shipments	\$1,000.. 932 785
Total miscellaneous receipts	\$1,000.. 997 213
Value of resales	\$1,000.. 729 521
Contract receipts	\$1,000.. 155 615
Other miscellaneous receipts	\$1,000.. 112 077
Primary products specialization ratio	percent.. 92
Value of primary products shipments made in all industries	\$1,000.. 11 863 071
Value of primary products shipments made in this industry	\$1,000.. 10 754 816
Value of primary products shipments made in other industries	\$1,000.. 1 108 255
Coverage ratio	percent.. 91
Value added	\$1,000.. 7 032 755
Total inventories, beginning of year	\$1,000.. 1 622 877
Finished goods inventories	\$1,000.. 674 830
Work-in-process inventories	\$1,000.. 372 407
Materials and supplies inventories	\$1,000.. 576 050
Total inventories, end of year	\$1,000.. 1 604 367
Finished goods inventories	\$1,000.. 657 240
Work-in-process inventories	\$1,000.. 369 034
Materials and supplies inventories	\$1,000.. 578 503
Gross value of depreciable assets (acquisition costs) at beginning of year	\$1,000.. '4 685 742
Total capital expenditures (new and used)	\$1,000.. '482 998
Buildings and other structures (new and used)	\$1,000.. '78 026
Machinery and equipment (new and used)	\$1,000.. '404 972
Automobiles, trucks, etc., for highway use	\$1,000.. '25 398
Computers and peripheral data processing equipment	\$1,000.. '34 327
All other expenditures for machinery and equipment	\$1,000.. '345 247
Total retirements	\$1,000.. '346 384
Gross value of depreciable assets at end of year	\$1,000.. '4 822 356
Depreciation charges during year	\$1,000.. '335 914
Total rental payments	\$1,000.. 229 999
Buildings and other structures	\$1,000.. 143 936
Machinery and equipment	\$1,000.. 86 063
Total other expenses ⁴	\$1,000.. 713 255
Response coverage ratio ⁵	percent.. 81
Repair and maintenance services of buildings and/or machinery ⁴	\$1,000.. 81 332
Communications services ⁴	\$1,000.. 18 963
Legal services ⁴	\$1,000.. 13 674
Accounting, auditing, and bookkeeping services ⁴	\$1,000.. 13 986
Advertising and promotional services ⁴	\$1,000.. 27 044
Expensed computer hardware and supplies and purchased computer services ⁴	\$1,000.. 12 635
Refuse removal (including hazardous waste) services ⁴	\$1,000.. 8 427
Management consulting and administrative services ⁴	\$1,000.. 15 413
Taxes and license fees ⁴	\$1,000.. 37 206
All other expenses ⁴	\$1,000.. 484 576

¹For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Based on 2002 Annual Survey of Manufactures (ASM) sample data.

⁵A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 4. Industry Statistics by Employment Size: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Employment size class	E ¹	All establishments ²	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)				
332999, All other miscellaneous fabricated metal product manufacturing											
All establishments	1	3 602	77 472	2 741 583	57 811	113 590	1 758 205	7 032 755	5 631 096	12 684 814	'482 998
Establishments with—											
1 to 4 employees	8	1 461	3 055	102 179	2 170	4 018	65 868	250 057	179 079	428 687	'10 328
5 to 9 employees	5	545	3 734	135 947	2 780	5 320	92 959	308 766	235 945	549 465	'24 571
10 to 19 employees	4	578	7 927	280 898	5 772	10 781	183 956	606 399	491 615	1 108 402	'39 263
20 to 49 employees	2	638	19 632	697 726	14 511	28 421	436 854	1 739 726	1 190 835	2 923 664	'107 691
50 to 99 employees	1	251	17 231	608 963	13 116	26 165	393 286	1 505 332	1 164 110	2 682 879	'99 319
100 to 249 employees	—	102	15 054	545 271	11 260	22 254	344 796	1 394 996	1 304 740	2 678 498	'108 446
250 to 499 employees	—	21	7 001	238 973	5 333	10 358	164 408	857 874	737 307	1 612 438	'77 016
500 to 999 employees	—	6	3 838	131 626	2 869	6 273	76 078	369 605	327 465	700 781	'16 364
1,000 to 2,499 employees	—	—	—	—	—	—	—	—	—	—	—
2,500 employees or more	—	—	—	—	—	—	—	—	—	—	—
Administrative records ⁴	7	1 371	4 804	164 198	3 594	6 976	108 063	372 490	240 980	603 026	'15 474

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 5. Industry Statistics by Primary Product Class Specialization: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or product class code	Industry or primary product class	All establishments ¹	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)				
332999	All other miscellaneous fabricated metal product manufacturing	3 602	77 472	2 741 583	57 811	113 590	1 758 205	7 032 755	5 631 096	12 684 814	'482 998
3329992	Converted unmounted aluminum foil packaging products	13	2 012	73 258	1 645	3 212	54 827	414 415	464 752	889 399	'8 190
3329995	Miscellaneous machinery products..	196	7 339	270 596	5 383	10 205	174 136	829 709	409 338	1 235 738	'64 386
3329997	Fabricated metal collapsible tubes ..	10	638	16 287	523	986	11 593	48 641	19 036	66 327	'1 272
3329999	Flat metal strapping	15	1 139	51 161	854	1 644	34 526	180 527	297 117	470 249	'58 802
332999B	Metal ladders	28	3 096	105 816	2 226	4 657	57 813	256 353	228 378	486 078	'11 391
332999H	All other miscellaneous fabricated metal products	666	35 208	1 234 805	26 200	51 665	772 694	3 171 968	2 585 995	5 761 629	'194 565

¹Includes establishments with payroll at any time during the year.

²Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6a. **Products Statistics: 2002 and 1997**

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value (\$1,000)
332999	All other miscellaneous fabricated metal product manufacturing	2002.. N 1997.. N	X X	X X	11 863 071 9 986 278
3329992	Converted unmounted aluminum foil packaging products	2002.. N 1997.. N	X X	X X	780 273 N
33299921	Converted unmounted aluminum foil flexible packaging products, including gift wrap	2002.. N 1997.. N	X X	X X	780 273 N
3329992102	Converted unmounted aluminum foil for packaging products (not laminated to other materials)	mil lb. 2002.. 12 1997.. N	X X	S N	522 800 N
3329992107	Coated foil .001 to .003 inch thickness	mil lb. 2002.. 8 1997.. N	X X	9115.7 N	214 001 N
3329992112	Coated foil greater than .003 inch thickness	mil lb. 2002.. 6 1997.. N	X X	S N	43 472 N
3329992Y	Converted unmounted aluminum foil packaging products, nsk	2002.. N 1997.. N	X X	X X	— N
3329992YVV	Converted unmounted aluminum foil packaging products, nsk	2002.. N 1997.. N	X X	X X	— N
3329995	Miscellaneous machinery products	2002.. N 1997.. N	X X	X X	1 286 681 N
33299951	Flexible steel hose and tubing, including aluminum, stainless steel, and other types	2002.. N 1997.. N	X X	X X	1 286 681 N
3329995101	Flexible copper and copper-base alloy hose and tubing	2002.. 56 1997.. N	X X	X X	134 940 N
3329995106	Flexible aluminum and aluminum-base alloy hose and tubing	2002.. 151 1997.. N	X X	X X	403 158 N
3329995111	Flexible stainless steel hose and tubing	2002.. 166 1997.. N	X X	X X	518 418 N
3329995116	Other flexible metal hose and tubing	2002.. 118 1997.. N	X X	X X	230 165 N
3329995Y	Miscellaneous machinery products, nsk	2002.. N 1997.. N	X X	X X	— N
3329995YVV	Miscellaneous machinery products, nsk	2002.. N 1997.. N	X X	X X	— N
3329997	Fabricated metal collapsible tubes	2002.. N 1997.. N	X X	X X	67 687 53 062
33299971	Fabricated metal collapsible tubes	2002.. N 1997.. N	X X	X X	57 323 52 016
3329997101	Fabricated collapsible aluminum tubes	2002.. 7 1997.. 9	X X	X X	50 726 40 885
3329997106	Other fabricated collapsible metal tubes, including tin, tin-coated, tin-lead alloy, and lead	2002.. 4 1997.. 6	X X	X X	6 597 11 131
3329997Y	Fabricated metal collapsible tubes, nsk	2002.. N 1997.. N	X X	X X	10 364 1 046
3329997YVV	Fabricated metal collapsible tubes, nsk	2002.. N 1997.. N	X X	X X	10 364 1 046
3329999	Flat metal strapping	2002.. N 1997.. N	X X	X X	395 967 349 386
33299991	Flat metal strapping	2002.. N 1997.. N	X X	X X	395 967 349 386
3329999100	Flat metal strapping	1,000 s tons. 2002.. 21 1997.. 15	X X	S S	395 967 349 386
332999B	Metal ladders	2002.. N 1997.. N	X X	X X	342 919 N
332999B1	Metal step, platform, and rung-type ladders, metal ladder-type step stools, and ladder accessories	2002.. N 1997.. N	X X	X X	342 878 N
332999B101	Metal step and platform ladders	2002.. 30 1997.. N	X X	X X	119 642 N
332999B106	Metal rung-type ladders (single, trestle, extension, sectional, etc.)	2002.. 12 1997.. N	X X	X X	139 507 N
332999B111	Metal ladder-type step stools	2002.. 2 1997.. N	X X	X X	D N
332999B121	Metal ladder accessories, including levelers, ladder feet, ladder jacks, roof hooks, bucket shelves, etc.	2002.. 17 1997.. N	X X	X X	D N
332999BY	Metal ladders, nsk	2002.. N 1997.. N	X X	X X	41 N
332999BYVV	Metal ladders, nsk	2002.. N 1997.. N	X X	X X	41 N
332999H	All other miscellaneous fabricated metal products	2002.. N 1997.. N	X X	X X	5 426 506 N
332999H1	Metal fittings, flanges, and unions for piping systems	2002.. N 1997.. N	X X	X X	466 211 N
332999H101	Permanent magnets, except ceramic permanent magnets	2002.. 31 1997.. N	X X	X X	232 630 N
332999H106	Fabricated assemblies of railroad frogs, switches, and crossings	2002.. 11 1997.. N	X X	X X	89 907 N
332999H189	Metal pipe hangers and supports (except metal framing)	2002.. 33 1997.. N	X X	X X	143 674 N
332999H2	Hollowware	2002.. N 1997.. N	X X	X X	102 794 N
332999H201	Electrosilverplated hollowware, electrosilverplated to a nonprecious (except pewter) metal base, including baby goods, ecclesiastical ware, novelties, toiletware, and trophies	2002.. 9 1997.. N	X X	X X	51 027 N

See footnotes at end of table.

Table 6a. Products Statistics: 2002 and 1997—Con.

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value (\$1,000)
332999	All other miscellaneous fabricated metal product manufacturing—Con.				
332999H	All other miscellaneous fabricated metal products—Con.				
332999H2	Hollowware—Con.				
332999H206	Hollowware, precious and nonprecious metal plated to a nonprecious (except pewter) metal base, excluding electrosilverplated hollowware, including baby goods, ecclesiastical ware, and trophies	2002.. 10	X	X	40 156
	..... 1997.. N		X	X	N
332999H211	Electrosilverplated hollowware, electrosilverplated to a precious metal or pewter base, including baby goods, ecclesiastical ware, novelties, toiletware, and trophies	2002.. 3	X	X	D
	..... 1997.. N		X	X	N
332999H216	Unplated hollowware of other metals (including stainless steel)	2002.. 12	X	X	D
	..... 1997.. N		X	X	N
332999H3	All other fabricated metal products	2002.. N	X	X	4 826 743
	..... 1997.. N		X	X	N
332999H301	Stamped metal wheels for golf carts, lawn mowers, etc. (disc type)	2002.. 94	X	X	705 470
	..... 1997.. N		X	X	N
332999H303	Metal spools and reels	2002.. 21	X	X	68 177
	..... 1997.. N		X	X	N
332999H305	Metal pallets and skids (excluding wood and metal combinations)	2002.. 15	X	X	19 403
	..... 1997.. N		X	X	N
332999H306	Miscellaneous fabricated products, made primarily of metal (combs and hair curlers, etc.)	2002.. 226	X	X	773 426
	..... 1997.. N		X	X	N
332999H313	Steel wool	2002.. 4	X	X	D
	..... 1997.. N		X	X	N
332999H316	Metal scouring pads, including those with soap	2002.. 4	X	X	D
	..... 1997.. N		X	X	N
332999H319	Fabricated metal safes and vaults (fire-resistive and burglary-resistive)	2002.. 15	X	X	188 364
	..... 1997.. N		X	X	N
332999H320	Fabricated metal safe deposit boxes	2002.. 6	X	S	35 061
	..... 1997.. N		X	N	N
332999H321	All other fabricated metal bank and security vaults and equipment (including bank security lockers, night depositories, etc.)	2002.. 12	X	X	59 568
	..... 1997.. N		X	X	N
332999H322	Fireplace fixtures and equipment (including irons, screens, tongs, and other fire tools)	2002.. 16	X	X	63 520
	..... 1997.. N		X	X	N
332999H325	Traps, handcuffs and leg irons	2002.. 2	X	X	D
	..... 1997.. N		X	X	N
332999H397	All other fabricated metal products (including metal ironing boards and metal memorial tablets and grave markers)	2002.. 405	X	X	2 831 775
	..... 1997.. N		X	X	N
332999HY	All other miscellaneous fabricated metal products, nsk	2002.. N	X	X	30 758
	..... 1997.. N		X	X	N
332999HYWV	All other miscellaneous fabricated metal products, nsk	2002.. N	X	X	30 758
	..... 1997.. N		X	X	N
332999W	All other miscellaneous fabricated metal product manufacturing, nsk, total	2002.. N	X	X	3 563 038
	..... 1997.. N		X	X	1 275 933
332999WY	All other miscellaneous fabricated metal product manufacturing, nsk, total	2002.. N	X	X	3 563 038
	..... 1997.. N		X	X	1 275 933
332999WYWW	All other miscellaneous fabricated metal product manufacturing, nsk, for nonadministrative-record establishments	2002.. N	X	X	3 060 370
	..... 1997.. N		X	X	923 685
332999WYWY	All other miscellaneous fabricated metal product manufacturing, nsk, for administrative-record establishments	2002.. N	X	X	502 668
	..... 1997.. N		X	X	352 248

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p–10 to 19 percent estimated; q–20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6b. **Product Class Shipments for Selected States: 2002 and 1997**

[Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in Table 2. Also, product classes are not shown if they are miscellaneous or "not specified by kind" classes. Statistics for some states are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 2002. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographic definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS product class code	Product class and geographic area	Value of product shipments (\$1,000)
3329992	Converted unmounted aluminum foil packaging products	
	United States 2002 . .	780 273
	1997 . .	N
	Pennsylvania 2002 . .	13 082
	1997 . .	N
3329995	Miscellaneous machinery products	
	United States 2002 . .	1 286 681
	1997 . .	N
	Alabama 2002 . .	4 345
	1997 . .	N
	Arizona 2002 . .	3 006
	1997 . .	N
	California 2002 . .	121 154
	1997 . .	N
	Colorado 2002 . .	5 880
	1997 . .	N
	Connecticut 2002 . .	2 473
	1997 . .	N
	Florida 2002 . .	10 352
	1997 . .	N
	Georgia 2002 . .	22 594
	1997 . .	N
	Illinois 2002 . .	95 180
	1997 . .	N
	Indiana 2002 . .	15 864
	1997 . .	N
	Kansas 2002 . .	16 303
	1997 . .	N
	Kentucky 2002 . .	17 726
	1997 . .	N
	Massachusetts 2002 . .	41 037
	1997 . .	N
	Michigan 2002 . .	16 488
	1997 . .	N
	Minnesota 2002 . .	29 731
	1997 . .	N
	New Jersey 2002 . .	10 010
	1997 . .	N
	New York 2002 . .	32 128
	1997 . .	N
	North Carolina 2002 . .	5 488
	1997 . .	N
	Ohio 2002 . .	324 858
	1997 . .	N
	Oregon 2002 . .	3 665
	1997 . .	N
	Pennsylvania 2002 . .	33 910
	1997 . .	N
	South Carolina 2002 . .	6 163
	1997 . .	N
	Tennessee 2002 . .	5 777
	1997 . .	N
	Texas 2002 . .	240 471
	1997 . .	N
	Utah 2002 . .	4 106
	1997 . .	N
	Virginia 2002 . .	69 634
	1997 . .	N
	West Virginia 2002 . .	6 255
	1997 . .	N
	Wisconsin 2002 . .	23 533
	1997 . .	N
3329997	Fabricated metal collapsible tubes	
	United States 2002 . .	67 687
	1997 . .	53 062
3329999	Flat metal strapping	
	United States 2002 . .	395 967
	1997 . .	349 386
	California 2002 . .	67 060
	1997 . .	N
	Illinois 2002 . .	244 879
	1997 . .	N
332999B	Metal ladders	
	United States 2002 . .	342 919
	1997 . .	N
	California 2002 . .	37 177
	1997 . .	N
	Georgia 2002 . .	6 842
	1997 . .	N
	Minnesota 2002 . .	6 655
	1997 . .	N
	Pennsylvania 2002 . .	71 697
	1997 . .	N
	Tennessee 2002 . .	2 989
	1997 . .	N
	Wisconsin 2002 . .	5 412
	1997 . .	N
332999H	All other miscellaneous fabricated metal products	
	United States 2002 . .	5 426 506
	1997 . .	N
	Alabama 2002 . .	89 450
	1997 . .	N
	Arizona 2002 . .	56 261

See footnotes at end of table.

Table 6b. **Product Class Shipments for Selected States: 2002 and 1997—Con.**

[Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in Table 2. Also, product classes are not shown if they are miscellaneous or "not specified by kind" classes. Statistics for some states are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 2002. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographic definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS product class code	Product class and geographic area	Value of product shipments (\$1,000)
332999H	All other miscellaneous fabricated metal products—Con.	
	United States—Con.	
	1997..	N
	2002..	21 967
Arkansas	1997..	N
	2002..	345 287
California	1997..	N
	2002..	13 403
Colorado	1997..	N
	2002..	77 124
Connecticut	1997..	N
	2002..	73 597
Florida	1997..	N
	2002..	233 719
Georgia	1997..	N
	2002..	477 861
Illinois	1997..	N
	2002..	450 712
Indiana	1997..	N
	2002..	126 057
Iowa	1997..	N
	2002..	11 994
Kansas	1997..	N
	2002..	63 404
Kentucky	1997..	N
	2002..	38 690
Maine	1997..	N
	2002..	24 279
Maryland	1997..	N
	2002..	121 721
Massachusetts	1997..	N
	2002..	429 524
Michigan	1997..	N
	2002..	68 949
Minnesota	1997..	N
	2002..	41 294
Missouri	1997..	N
	2002..	114 929
Nebraska	1997..	N
	2002..	27 051
Nevada	1997..	N
	2002..	110 812
New Jersey	1997..	N
	2002..	198 221
New York	1997..	N
	2002..	35 683
North Carolina	1997..	N
	2002..	715 333
Ohio	1997..	N
	2002..	61 744
Oklahoma	1997..	N
	2002..	44 033
Oregon	1997..	N
	2002..	212 444
Pennsylvania	1997..	N
	2002..	82 254
Rhode Island	1997..	N
	2002..	133 966
South Carolina	1997..	N
	2002..	83 058
Tennessee	1997..	N
	2002..	347 717
Texas	1997..	N
	2002..	95 976
Utah	1997..	N
	2002..	72 915
Virginia	1997..	N
	2002..	83 513
Washington	1997..	N
	2002..	119 670
Wisconsin	1997..	N

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 7. Materials Consumed by Kind: 2002 and 1997

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
332999	All other miscellaneous fabricated metal product manufacturing		
00900001	Total materials .....2002..	X	4 645 305
	.....1997..	X	4 075 843
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products .....2002..	X	48 201
	.....1997..	X	20 274
33291907	Metal fittings, flanges, and unions for piping systems (excluding forgings) .....2002..	X	8 798
	.....1997..	X	23 758
332000AC	Metal stampings .....2002..	X	78 241
	.....1997..	X	66 247
33200098	Other fabricated metal products (excluding forgings, metal stampings, metal fittings, flanges, unions, bolts, nuts, screws, rivets, and washers) .....2002..	X	130 129
	.....1997..	X	N
33210000	Forgings .....2002..	X	7 863
	.....1997..	X	N
33151001	Iron and steel castings (rough and semifinished) .....2002..	X	39 856
	.....1997..	X	62 893
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished) .....2002..	X	45 481
	.....1997..	X	21 458
33152003	Other nonferrous metal castings, rough and semifinished (including aluminum and aluminum-base alloy) .....2002..	X	7 568
	.....1997..	X	12 013
33120071	Steel bars and bar shapes (excluding castings, forgings, and fabricated metal products) .....2002..	X	36 853
	.....1997..	X	63 305
33120016	Steel sheet and strip (including tinplate) .....2002..	X	443 472
	.....1997..	X	N
33120079	Steel plate .....2002..	X	58 410
	.....1997..	X	79 049
33120069	Steel structural shapes (excluding castings, forgings, and fabricated metal products) .....2002..	X	21 168
	.....1997..	X	26 990
33120021	Steel pipes (excluding castings, forgings, and fabricated metal products) .....2002..	X	23 873
	.....1997..	X	42 121
33120032	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	25 691
	.....1997..	X	N
33142135	Copper and copper-base alloy pipe and tube (excluding castings, forgings, and fabricated metal products) .....2002..	X	3 575
	.....1997..	X	14 729
33142141	All other copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	7 978
	.....1997..	X	43 704
33131500	Aluminum and aluminum-base alloy sheet, plate, foil, and welded tubing .....2002..	X	163 650
	.....1997..	X	N
33131601	Aluminum and aluminum-base alloy extruded shapes (extruded rod, bar, pipe, tube, etc.) .....2002..	X	111 665
	.....1997..	X	N
33131506	Aluminum and aluminum-base alloy foil, plain .....2002..	X	195 260
	.....1997..	X	N
33100049	Other aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, sheet, plate, foil, welded tubing, extruded shapes, and fabricated metal products) .....2002..	X	43 244
	.....1997..	X	34 165
33100082	Other nonferrous metal shapes and forms (excluding aluminum and aluminum-base alloy and copper and copper-base alloy castings, forgings, and fabricated metal products) .....2002..	X	15 730
	.....1997..	X	N
331000AA	Metal powders .....2002..	X	12 363
	.....1997..	X	18 013
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc. ....2002..	X	92 644
	.....1997..	X	27 509
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes .....2002..	X	32 779
	.....1997..	X	29 156
21239017	Natural abrasive materials, excluding diamonds .....2002..	X	D
	.....1997..	X	34 929
32552002	Glues and adhesives .....2002..	X	D
	.....1997..	X	N
32200001	Paper and paperboard products (including paperboard boxes, containers, and corrugated paperboard) .....2002..	X	48 709
	.....1997..	X	201 108
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	1 823 770
	.....1997..	X	2 404 257
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	1 093 378
	.....1997..	X	850 165

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.